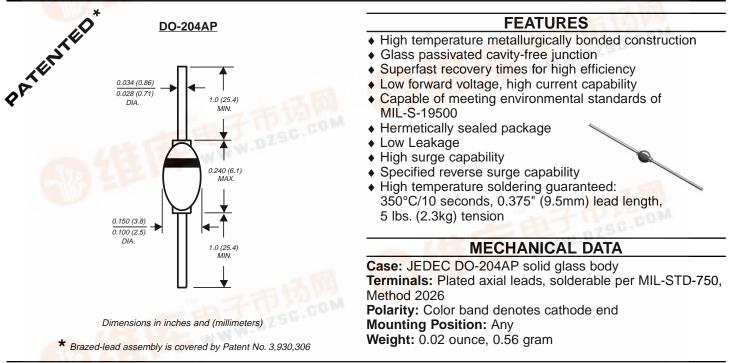
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## **BYV26D AND BYV26E**

**GLASS PASSIVATED FAST EFFICIENT RECTIFIER** 

Reverse Voltage - 800 to 1000 Volts

Forward Current - 1.0 Ampere



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	BYV26D	BYV26E	UNIT	
Maximum repetitive peak reverse voltage	VRRM	800	1000	Volts	
Maximum RMS voltage	VRMS	560	700	Volts	
Maximum DC blocking voltage	VDC	800	1000	Volts	
Minimum avalanche breakdown voltage at 100μA	VBR	900	1100	Volts	
Maximum averag <mark>e forwa</mark> rd <mark>rectifie</mark> d current 0.375" <mark>(9.5mm) lead leng</mark> th (SEE FIG. 1)	I(AV)	1.0		Amp	
Peak f <mark>orward su</mark> rge current 10ms single half sine-wave superimposed on rated load	IFSM	30.0		Amps	
Maximum instantaneous forward voltage at 1.0A TJ=25°C TJ=175°C	VF	2.50 1.30		Volts	
Maximum DC reverse current T <sub>A</sub> =25°C T <sub>A</sub> =165°C	IR	5.0 150.0		μA	
Maximum reverse recovery time (NOTE 1)	trr	75.0		ns	
Non repetitive peak reverse energy (NOTE 2)	Ersm	10.0		mj	
Typical junction capacitance (NOTE 3)	CJ	15.0		pF	
Typical thermal resistance (NOTE 4) (NOTE 5)	R₀ja R₀jl	70.0 16.0		°C/W	
Operating junction and storage temperature range	TJ, TSTG	-65 to +175		°C	

## NOTES:

(1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A

Peak reverse energy measured at IR=400mA, TJ=TJ max. on inductive load, t=20 $\mu$ s Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

4 Thermat resistance from junction to ambient at 0.375" (9.5mm) lead length, mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads

Thermal resistance from junction to lead at 0.375" (9.5mm) lead length with both leads attached to heatsink



## RATINGS AND CHARACTERISTIC CURVES BYV26D AND BYV26E

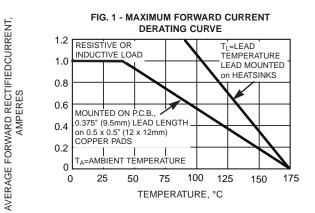
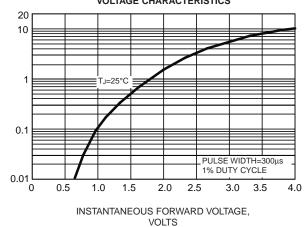


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD VOLTAGE CHARACTERISTICS



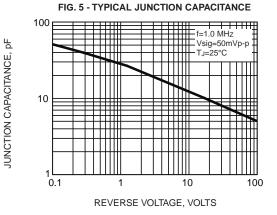


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK

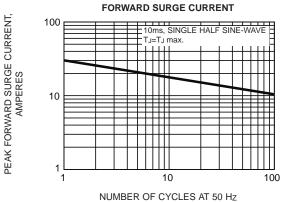
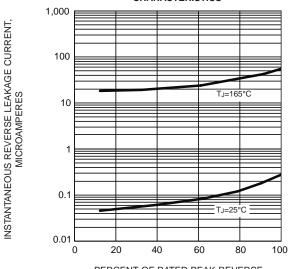
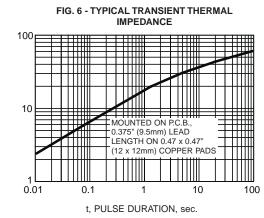


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE, %



TRANSIENT THERMAL IMPEDANCE, °C/W

INSTANTANEOUS FORWARD CURRENT, AMPERES